

CLAIMS

What is claimed is:

1. An assembly, comprising:
an electronics substrate;
a first electrical connector coupled to the electronics substrate; and
a biasing mechanism comprising a leverage member pivotably coupled to the electronics substrate substantially along a centerline of the electronics substrate, such that actuation of the leverage member biases the first electrical connector between engaged and disengaged positions with respect to a second electrical connector separate from the electronics substrate.
2. The assembly as recited in claim 1, comprising a computer component coupled to the electronics substrate.
3. The assembly as recited in claim 1, wherein the computer component comprises a processor.
4. The assembly as recited in claim 1, wherein the leverage member comprises a gear structure configured to engage with a mating gear structure coupled to a computer device chassis.
5. The assembly as recited in claim 1, wherein the biasing mechanism comprises first and second engagement members pivotably coupled to the electronics substrate on opposite sides of the centerline, such that the first and second

engagement members cooperate to provide a biasing force to bias the first electrical connector into engagement with the second connector.

6. The assembly as recited in claim 1, wherein actuation of the leverage member induces pivotal movement in the first and second engagement members.

7. The assembly as recited in claim 1, wherein the biasing mechanism comprises a securing mechanism configured to selectably secure the position of the leverage member with respect to the electronics substrate.

8. The assembly as recited in claim 1, comprising a spring member configured to pivotably bias a nose of the leverage member away from the electronics substrate.

9. The assembly as recited in claim 1, wherein the leverage member comprises a nose configured to guide the leverage member with respect to the electronics substrate.

10. An apparatus, comprising:
a leverage member pivotable with respect to an electronic component; and
a first engagement member located on a first side of a centerline of the electronic component and a second engagement member located on a second side of the centerline of the electronic component opposite the first side, wherein the first and second engagement members pivot with respect to the electronic component in response to the actuation of the leverage member.

11. The assembly as recited in claim 10, comprising:
a first linkage member pivotably coupled to the actuation member and the first engagement member;
a second linkage member pivotably coupled to the actuation member and the second linkage member; and
wherein the first and second linkage members are configured to pivotably actuate the first and second engagement members in response to actuation of the actuation member to bias a first electrical connector coupled to the electronic component between engaged and disengaged positions with respect to a second electrical connector coupled to an electronic device chassis.
12. The apparatus as recited in claim 10, comprising a securing mechanism configured to selectably secure the position of the leverage member with respect to the electronic component.
13. The apparatus as recited in claim 10, wherein the leverage member and the first and second engagement members are coupled to the electronic component.
14. The apparatus as recited in claim 13, wherein the electronic component comprises a computer component.
15. The apparatus as recited in claim 14, wherein the computer component includes a processor.
16. The apparatus as recited in claim 14, wherein the computer component comprises a data storage device.

17. An apparatus, comprising:
an electronic component having a first electrical connector;
a leverage member pivotably coupled to the electronic component at a pivot joint;
first and second biasing members pivotably coupled to the electronic component at
first and second nonadjacent edges, respectively;
first and second linkage members pivotably coupled to the leverage member and to
the first and second biasing members, respectively;
wherein the first and second biasing members cooperate to bias the first electrical
connector between disengaged and engaged positions with respect to a second
electrical connector in response to actuation of the leverage member.
18. The apparatus as recited in claim 17, wherein the electronic component
comprises a computer component.
19. The apparatus as recited in claim 18, wherein the computer component
comprises a processor.
20. The apparatus as recited in claim 18, wherein the computer component
comprises a cooling device.
21. The apparatus as recited in claim 18, wherein the computer component
comprises an electronics substrate.
22. The apparatus as recited in claim 17, wherein the first and second
biasing members are each located substantially at a substantially equal distance from a
centerline of the electronic component.

23. The apparatus as recited in claim 17, wherein the leverage member pivotably couples to the electronic component substantially along a centerline of the electronic component.

24. A computer device, comprising:
a chassis;
a first electrical connector electrically coupled to a first computer component disposed in the chassis;
a second computer component having a second electrical connector configured to engage with the first electrical connector; and
a biasing mechanism, comprising:
a leverage member pivotable with respect to the second computer component;
and
first and second biasing members pivotably coupled to the leverage member at opposite sides of the second computer component, wherein the first and second biasing members are configured to bias the second electrical connector between engaged and disengaged positions with respect to the first electrical connector in response to actuation of the leverage member.

25. The apparatus as recited in claim 24, comprising a first linkage member pivotably coupled to the first biasing member and the leverage member and a second linkage member pivotably coupled to the second biasing member and the leverage member.

26. The computer device as recited in claim 24 wherein the leverage member is coupled to the second computer component.

27. The computer device as recited in claim 24, wherein the second computer component comprises a processor.

28. The computer device as recited in claim 21, wherein the chassis comprises notched portions configured to receive the first and second biasing members respectively.

29. The computer device as recited in claim 21, wherein the leverage member comprises a securing mechanism configured to secure the position of the actuation member with respect to the second electronic component.

30. A method of manufacture for a computer component having a centerline and including a biasing mechanism configured to bias a first electrical connector of the computer component between engaged and disengaged positions with respect to a second electrical connector coupled to a computer device chassis, comprising the acts of:

providing a leverage member coupled to the computer component such that the leverage member is pivotable with respect to the computer component;
providing first and second biasing members located on opposite side of the centerline, such that the first and second biasing pivot in response to actuation of the leverage member.

31. A computer device, comprising
- means for synchronously pivoting first and second engagement members located on opposite sides of a computer component;
- means for leveraging the means for synchronously pivoting to bias the first and second member cooperatively to bias the computer component between engaged and disengaged positions with respect to a computer device.